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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/747,671	12/22/2000	Jamey O. Calloway	17587	4630

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EXAMINER

ADAMS, JONATHAN R

ART UNIT PAPER NUMBER

2134

DATE MAILED: 08/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/747,671

Applicant(s)

CALLOWAY, JAMEY O.

Examiner

Jonathan R Adams

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 December 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) _____ is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 2, 4-6, and 10-16 rejected under 35 U.S.C. 102(b) as being anticipated by Deutch et al, US Patent No 5577115 (hereafter referred to as '115).

3. As to claim 1:

'115 teaches a security system for switching voice/data input lines comprising:

- Input for receiving a communications line containing data and voice communication services / ISDN network interface (Col 4, Line 5, '115), Voice audio, data information (Col 1, Line 37, '115)
- Modem output for passing voice and data services to a modem / (Fig 1A, Element 50, '115), Modem (Fig 1B, Element 34, '115)
- Modem input for receiving voice services from the modem / (Fig 1A, Element 50, '115), Modem (Fig 1B, Element 34, '115)

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- Premise output for receiving only the voice service from the modem input /
(Element 35, Fig 1B, '115)

4. As to claims 2, 6:

Security interface connected between the modem input and the premise output /
passing the voice service to a security system and for receiving the voice service from
the security system / Switch matrix (Element 43, Fig 5, '115)

5. As to claims 4 and 10:

Security system configured to seize the voice service upon detection of a breach /
Output of power test is connected to microprocessor such that microprocessor controls
the open/closed position of switches (Col 7, Line 53, '115)

6. As to claims 5 and 11:

Data service to the modem is uninterrupted by seizure to the voice service / If power
associated with analog service is detected the microprocessor recognizes that the
network is either the standard ISDN or analog line (Col 5, Line 28 et seq., '115)

7. As to claim 12:

'115 teaches a security system for switching voice/data input lines comprising:

- Input for receiving a plurality of services / ISDN network interface (Col 4, Line 5,
'115), Voice audio, data information (Col 1, Line 37, '115)

- Modem interface means connected between the input means and output means / Switch Matrix (Element 43, Fig 5, '115)
- security interface connected between the modem input and the premise output / passing the voice service to a security system and for receiving the voice service from the security system / Switch matrix (Element 43, Fig 5, '115)

8. As to claim 13:

Modem interface passes data communications through modem and voice to security system interface means / It is inherent to the invention of '115 that voice is processed by switch matrix/security system interface/modem interface (Element 43, Fig 5, '115) and that data is sent to the modem through the analog lines as it is the sole purpose of modems to communicate with data from analog lines.

9. As to claim 14:

Filter interface passes all communications to security system when modem is disconnected / All communications pass through the switch matrix regardless of modem connectivity

10. As to claim 15:

Security system interface interrupts voice communications to the output when a security breach is detected / Output of power test is connected to microprocessor such that microprocessor controls the open/closed position of switches (Col 7, Line 53, '115), If

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power associated with analog service is detected the microprocessor recognizes that the network is either the standard ISDN or analog line (Col 5, Line 28 et seq., '115)

11. As to claim 16:

Data service to the modem is uninterrupted by seizure to the voice service / If power associated with analog service is detected the microprocessor recognizes that the network is either the standard ISDN or analog line (Col 5, Line 28 et seq., '115)

Claim Rejections - 35 USC § 103

12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

13. Claims 7 and 9 rejected under 35 U.S.C. 103(a) as being unpatentable over '115.

As to claim 7:

14. '115 teaches a security system for switching voice/data input lines. '115 does not specifically teach for communications lines to comprise four twisted pair lines bundled in a cable. The examiner takes official notice that communications lines to comprise four twisted pair lines bundled in a cable. It would have been obvious to a person of ordinary skill in the art at the time of invention to use communications lines that comprise four twisted pair lines bundled in a cable. One of ordinary skill in the art would have been motivated to use communications lines that comprise four twisted pair lines

bundled in a cable because it is the standard in network hardware to use RJ-45 connectors with CAT-5 cable which comprises four twisted pair lines bundled in a cable.

As to claim 9:

15. '115 teaches a security system for switching voice/data input lines. '115 does not specifically teach using an RJ-45 connector for the modem output. '115 teaches using RJ-45 connectors for releasable interfacing components for other connections (Col 10 , Line 18, '115). It would have been obvious to a person of ordinary skill in the art at the time of invention to use an RJ-45 connector for the modem output. One of ordinary skill in the art would have been motivated to an RJ-45 connector for the modem output because RJ-45 connectors are a standard connector type and are beneficial because they allow easily releasable connections.

16. Claim 3 rejected under 35 U.S.C. 103(a) as being unpatentable over '115 in view of DSL Tutorial.

17. '115 teaches a security system for switching telecommunications voice/data input lines connected to a modem. '115 does not teach for the modem to filters voice services from data service. DSL tutorial teaches a telecommunications system where voice/data are transmitted over the same line and where voice is filtered from data service (Page 3, Line 26 et seq., DSL tutorial). It would have been obvious to a person of ordinary skill in the art at the time of invention to use the DSL communications system and modem of DSL tutorial with the invention of '115. One of ordinary skill in

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the art would have been motivated to use the DSL communications system and modem of DSL tutorial with the invention of '115 because DSL is a very common telecommunications system providing higher speed internet access that traditional modems.

18. Claim 8 rejected under 35 U.S.C. 103(a) as being unpatentable over '115 in view of Mano, US Patent No 5187705 (hereafter referred to as '705).

As to claims 8


19. '115 teaches a security system for switching voice/data input lines. '115 does not teach for the modem output to pass the selected lines to a modem and pass lines directly to modem input when modem is disconnected. '705 teaches the loop-back testing of transmission lines at the terminals of a communication interface unit (Col 1, Line 46, '705) upon detecting an error (Col 1, Line 27, '705). It would have been obvious to a person of ordinary skill in the art at the time of invention to use a loop back test upon detecting an error such as a disconnected modem in the invention of '115. One of ordinary skill in the art would have been motivated to use a loop back test upon detecting an error such as a disconnected modem in the invention of '115 because it is beneficial to be able to easily troubleshoot defective devices.

Conclusion

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20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan R Adams whose telephone number is (703) 305-8894. The examiner can normally be reached on Monday – Friday from 10am to 6pm.

21. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse, can be reached on (703) 308-4789. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.


GREGORY MORSE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100